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PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference 2002DE422	FOR FURTHER ACTION	See Notific Preliminary	eation of Transmittal of International Examination Report (Form PCT/IPEA/416)
International application No.			Priority date (day/month/year)
PCT/EP2003/006264	13 June 2003 (13.06	5.2003)	28 June 2002 (28.06.2002)
International Patent Classification (IPC) or n C12H 1/044	ational classification and IPC		
Applicant	CLARIANT INTERNAT	IONAL LTI	
and is transmitted to the applicant a 2. This REPORT consists of a total of This report is also accompan amended and are the basis for 70.16 and Section 607 of the	sheets, included by ANNEXES, i.e., sheets or this report and/or sheets contact Administrative Instructions un	ling this cover so of the description	national Preliminary Examining Authority sheet. on, claims and/or drawings which have been ations made before this Authority (see Rule
	otal of 1 sheets.		(r, p,
3. This report contains indications relating to the following items:			
I Basis of the report			
II Priority			
III Non-establishment	of opinion with regard to nove	lty, inventive s	tep and industrial applicability
IV Lack of unity of in	vention		
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
VI Certain documents	cited		
VII Certain defects in the international application			
VIII Certain observations on the international application			
	·		
Date of submission of the demand	Date	of completion	of this report
04 December 2003 (04	.12.2003)	1	6 June 2004 (16.06.2004)
Name and mailing address of the IPEA/E	Aut	horized officer	
Facsimile No.	Tele	ephone No.	



Internation	plication No.
PCT/H	EP2003/006264

I. Basis c	f the rep	port	
1. With r	egard to	the elements of the international application:*	
		national application as originally filed	
\boxtimes	the desc	ription:	
<u></u>	pages	1-7	, as originally filed
	pages		, filed with the demand
	pages	, filed with the letter of	
\boxtimes	the clair		
	pages		, as originally filed
	pages	, as amended (together	, filed with the demand
	pages		, mod with the definition
	pages	1-8, filed with the letter of	00745111 2001 (000000)
	the dra	wings:	, as originally filed
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	pages	Cl. 1 with the letter of	, med with the demand
	pages	, filed with the letter of	
	the seque	ence listing part of the description:	
	pages		, as originally filed
	pages		,
1	pages	, filed with the letter of	
	nternationse eleme	to the language, all the elements marked above were available or furnished to the small application was filed, unless otherwise indicated under this item. Into the available or furnished to this Authority in the following language	which is:
	the la	nguage of publication of the international application (under Rule 48.3(b)).	
	the la	nguage of the translation furnished for the purposes of international preliminar	y examination (under Rule 55.2 and/
3. Wit	h recor	d to any nucleotide and/or amino acid sequence disclosed in the internate examination was carried out on the basis of the sequence listing:	ational application, the international
1	_	ined in the international application in written form.	
		together with the international application in computer readable form.	
		shed subsequently to this Authority in written form.	
	furnis	shed subsequently to this Authority in computer readable form.	
	interr	statement that the subsequently furnished written sequence listing does no national application as filed has been furnished.	
		statement that the information recorded in computer readable form is identical furnished.	al to the written sequence listing has
4.	The	amendments have resulted in the cancellation of:	
		the description, pages	
.		the claims, Nos.	
1		the drawings, sheets/fig	
5.	This beyon	report has been established as if (some of) the amendments had not been made, and the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	since they have been considered to go
in an	this rep d 70.17).	nt sheets which have been furnished to the receiving Office in response to an invort as "originally filed" and are not annexed to this report since they do	(Carrelle Carrelle Ca
** An	y replac	ement sheet containing such amendments must be referred to under item 1 and an	nexed to this report.

Internati	application No.
PCT/EF	03/06264

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial ap	plicability;
	citations and explanations supporting such statement	

I				
1.	Statement			
	Novelty (N)	Claims	1-8	YES
		Claims		NO
	Inventive step (IS)	Claims	1-8	YES
		Claims		NO
	Industrial applicability (IA)	Claims	1-8	YES
		Claims		NO

2. Citations and explanations

This report makes reference to the following document: D1: DE 24 08 896 A (BAYER AG) 28 August 1975 (1975-08-28)

- 1. D1, which is regarded as the closest prior art, discloses (see page 2; page 4, first to third paragraphs; page 5, fourth paragraph to page 6; examples) the use of silica sols having a particle diameter of between 4 and 150 nm and a surface of between 20 and 700 m²/g for clarifying wine, from which the subject matter of claim 1 differs in that the silica sols have a pH value of between 1 and 4.
- 2. The subject matter of claim 1 is therefore novel (PCT Article 33(2)).
- 3. The applicant has convincingly shown by way of comparative examples that a low pH value is essential for solving the technical problem.
- 4. The problem to be solved by the present invention can therefore be regarded as that of providing a silica sol having a particle diameter of between 4 and 150 nm and a surface of between 20 and 700 m²/g, this silica sol being more effective in fining and

clarifying beverages.

- 5. The solution to this problem proposed in claim 1 of the present application involves an inventive step (PCT Article 33(3)) for the following reasons: the use of a silica sol having a particle diameter of between 4 and 150 nm and a surface of between 20 and 700 m²/g and a pH value of between 1 and 4 is not obvious from the prior art and is also not obvious to a person skilled in the art.
- 6. Claims 2 to 8 are dependent on claim 1 and therefore also meet the PCT requirements for novelty and inventive step.